

#### Kicking Toxics Out of the Work Place: Eliminating the Use of Unnecessary Flame Retardant Chemicals

Alameda County Green Purchasing Roundtable 5/20/15

#### Center for Environmental Health (CEH)

A non-profit organization dedicated to protecting public health from exposures to toxic chemicals.

The Center for Environmental Health works with large purchasers to utilize their buying power to incentivize the production of environmentally preferable products www.ceh.org



# Flame Retardants





#### What are flame retardants? Inhibit ignition or spread of flames

# Where are flame retardants used?

- Electronics
- Building Insulation
- ✓ Foam Furniture
- Wires and Cabling



#### **Health Effects of Flame Retardants**



#### Flame Retardants Are Ubiquitous













**Slide Courtesy of Green Science Policy Institute** 

#### How are We Exposed?

- Inhalation or ingestion of contaminated dust particles
- Ingestion from food, especially meat and dairy
- Occupational Exposure

#### Unique to Children

- Absorption across the placenta
- Breast milk
- Frequent hand-to-mouth activity





### Flame Retardants: Lack of Fire Safety Benefit

- No significant difference in fire growth between foam with flame retardants formulated to pass TB 117 and untreated foam. Source: U.S. Dept. of Commerce, National Bureau of Standards.
- Chairs with flame retardant foam offered no practically significant difference than those without FR-treated foam. Source: CPSC, 2012.





#### **Additional Considerations**

- Presence of Automatic Fire Sprinklers in Buildings
- People not allowed to smoke
- No fire data supports need for flame retardant chemicals in

office furniture







#### Furniture Flammability Regulations







# TBI17-2013: Smolder test on fabric



- Addresses smoldering ignition which is the leading cause of furniture fire deaths
- Focus on fabric where fires actually start, more realistic
- Flame retardants are not needed

#### Increased fire safety without toxicity



## TB | 17-2013 ≠ Flame Retardant Free

- 11
- New standard provides way to pass new test without FRs BUT.....
- Does <u>not</u> prohibit the use of FRs
- You must ask the manufacturer re: their use of FRs





## Flame Retardant Disclosure Bill SB 1019 (Leno)

- Require manufacturers to label furniture as to whether they contain or do not contain flame retardant chemicals.
- Children's products are not labeled





#### What label to look for? SB 1019 Label

NOTICE THIS ARTICLE MEETS THE FLAMMABILITY REQUIREMENTS OF CALIFORNIA BUREAU OF ELECTRONIC AND APPLIANCE REPAIR, HOME FURNISHINGS AND THERMAL INSULATION TECHNICAL BULLETIN 117-2013. CARE SHOULD BE EXERCISED NEAR OF EN FLAME OR WITH BURNING

CIGARETTES.

The upholstery materials in this product: \_\_\_\_\_contain added flame retardant chemicals \_\_\_\_\_contain NO added flame retardant chemicals

The State of California has updated the flammability standard and determined the fire safety requirements for this product can be met without adding flame retardant chemicals. The State has identified many flame retardant chemicals as being known to, or strongly suspected of, adversely impacting human health or development.



# **Technical Bulletin 133**



Seating Furniture for Public Buildings or Assembly Areas

CA includes:

`FH

- Hospitals, health care facilities, nursing homes, board and care homes, convalescent homes
- Jails, prisons, penal institutions
- Stadiums, auditoriums,
- Public assembly areas of hotels/motels.



## **Technical Bulletin 133**

- More expensive
  - \$15-100 more per chair
  - \$200-\$500 more per couch
- Flame retardants typically used in the foam, fabric and/or barrier
- Fewer design choices



### PURCHASER STRATEGY ADVISORY GROUP TOOLS



**TEH** 

- Purchaser Pledge
- Letter to Suppliers
- Furniture Survey
- Technical Specifications/RFP
  Questions and Guidance
- Fact sheet



# "Purchaser Pledge" Signers

- Autodesk
- Blue Cross Blue Shield of MA
- City of Portland
- Dignity Health
- Facebook
- Genentech
- Hackensack University Medical Center
- HDR

CFH

- Healthy Building Science
- Kaiser Permanente

- Kay Chesterfield Reupholstery
- Multnomah County
- New Resource Bank
- One Workplace
- Perkins + Will
- San Francisco Dept. of the Environment
- Staples
- Yahoo!
- YOUR ORGANIZATION ?





#### Sample Questions:

- Does your company have upholstered seating products made entirely without added flame retardant chemicals including in plastic parts?
- If some or all of your seating products still contain added FRs, please indicate timeline for eliminating.
- How will you let purchasers know that your upholstered seating furniture products do not contain added flame retardant chemicals?



#### Manufacturers who Have <u>All</u> Flame Retardant-Free Products



# Manufacturers who Have <u>Some</u> Flame Retardant-Free Products



HermanMiller





Steelcase



# Reupholster or Replace Cushions

Ask for flame retardant-free foam when:

Reupholstering:

- Prolongs life
- Reduces waste

or

2



#### Replacing cushions:

- Can remove vast majority of FRs
- Cost \$45-\$95 per cushion



#### Why Make the Switch?

- Reduced toxics in work environment
- Concern for employee and community health
- Potential cost savings
- More durable and comfortable
- Consistent with organizational mission/values
- Success story for sustainability report
- Businesses can influence the market
  faster than regulations or legislation



## **NEXT STEPS**?

- Develop team of key stakeholders to build org. awareness and create an action plan
- Utilize existing tools to express your preference and ask for your suppliers' help in meeting your toxic reduction objectives
- **□**Find out your org's furniture contract timeframe
- **Prefer those companies who offer FR-free products**
- □Advocate for your company to sign the purchaser pledge
- **Call CEH for assistance**

**TEH** 

#### **Questions?**

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